

OM protein - protein search, using sw model

Run on: May 8, 2001, 11:54:40 ; Search time 12.28 Seconds

(without alignments)  
769,686 Million cell updates/sec

Title: US-09-323-597B-2

Sequence: 1 MALNSGSPPAIGPYENHGX.....YGVNVMFTDVIYQMAADG 492

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 185757 seqs, 19210857 residues

Total number of hits satisfying chosen parameters: 185757

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents-AA:\*  
1: /cgn2\_6/prodata/2/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/prodata/2/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/prodata/2/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/prodata/2/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/prodata/2/1aa/PCUS.COMB.pep:\*  
6: /cgn2\_6/prodata/2/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description       |
|------------|-------|-------------|--------|----|-------------------|
| 1          | 2717  | 100.0       | 492    | 4  | US-09-342-749-2   |
| 2          | 1340  | 56.7        | 283    | 3  | US-08-807-151-1   |
| 3          | 676.5 | 24.9        | 435    | 4  | US-09-008-271A-6  |
| 4          | 660   | 24.3        | 798    | 1  | US-08-200-900A-2  |
| 5          | 660   | 24.3        | 798    | 5  | PCR-US94-00616-2  |
| 6          | 558.5 | 20.6        | 855    | 2  | US-09-027-337-2   |
| 7          | 356   | 19.9        | 638    | 2  | US-08-681-151-3   |
| 8          | 539.5 | 19.7        | 416    | 2  | US-09-000-846-2   |
| 9          | 534   | 19.9        | 356    | 2  | US-08-681-151-1   |
| 10         | 528.5 | 19.5        | 256    | 2  | US-09-027-337-3   |
| 11         | 527.5 | 19.4        | 418    | 1  | US-08-508-446C-25 |
| 12         | 521.5 | 19.2        | 235    | 3  | US-08-807-151-3   |
| 13         | 518.5 | 19.1        | 812    | 1  | US-08-248-629A-1  |
| 14         | 518.5 | 19.1        | 812    | 1  | US-08-451-932-1   |
| 15         | 518.5 | 19.1        | 812    | 1  | US-08-452-260-1   |
| 16         | 518.5 | 19.1        | 812    | 1  | US-08-326-785-1   |
| 17         | 518.5 | 19.1        | 812    | 2  | US-08-612-788-1   |
| 18         | 518.5 | 19.1        | 812    | 2  | US-08-603-598B-1  |
| 19         | 518.5 | 19.1        | 812    | 2  | US-08-429-743-1   |
| 20         | 518.5 | 19.1        | 812    | 2  | US-08-866-735-1   |
| 21         | 518.5 | 19.1        | 812    | 2  | US-09-066-028-1   |
| 22         | 518.5 | 19.1        | 812    | 5  | PCR-US95-05107-1  |
| 23         | 513.5 | 18.9        | 232    | 4  | US-08-508-446C-19 |
| 24         | 459.5 | 16.9        | 314    | 4  | US-09-008-271A-3  |
| 25         | 452   | 16.6        | 546    | 6  | 5200340-6         |
| 26         | 450   | 16.6        | 270    | 2  | US-08-978-404B-8  |
| 27         | 449   | 16.5        | 655    | 1  | US-08-148-910-12  |

|    |       |      |     |   |                   |                    |
|----|-------|------|-----|---|-------------------|--------------------|
| 28 | 449   | 16.5 | 655 | 1 | US-08-448-937A-12 | Sequence 12, Appl  |
| 29 | 447   | 16.5 | 276 | 2 | US-09-016-366A-15 | Sequence 13, Appl  |
| 30 | 447   | 16.5 | 276 | 2 | US-08-978-404B-21 | Sequence 21, Appl  |
| 31 | 446   | 16.4 | 230 | 1 | US-08-379-621-2   | Sequence 2, Appl1  |
| 32 | 446   | 16.4 | 230 | 1 | US-08-147-000B-2  | Sequence 2, Appl1  |
| 33 | 446   | 16.4 | 230 | 2 | US-08-889-078-2   | Sequence 2, Appl1  |
| 34 | 445.5 | 16.4 | 791 | 1 | US-08-643-219-1   | Sequence 1, Appl1  |
| 35 | 445.5 | 16.4 | 791 | 2 | US-09-131-995-1   | Sequence 1, Appl1  |
| 36 | 445.5 | 16.4 | 791 | 2 | US-08-832-087B-1  | Sequence 1, Appl1  |
| 37 | 445.5 | 16.4 | 791 | 2 | US-08-851-350-1   | Sequence 1, Appl1  |
| 38 | 445.5 | 16.4 | 810 | 1 | US-07-854-603-2   | Sequence 1, Appl1  |
| 39 | 445.5 | 16.4 | 810 | 1 | US-08-147-000B-29 | Sequence 29, Appl  |
| 40 | 445.5 | 16.4 | 810 | 6 | 5200340-8         | Patent No. 5200340 |
| 41 | 444.5 | 16.4 | 790 | 1 | US-08-469-486-54  | Sequence 54, Appl  |
| 42 | 444.5 | 16.4 | 790 | 2 | US-08-469-658-54  | Sequence 54, Appl  |
| 43 | 442.5 | 16.3 | 222 | 1 | US-08-456-840-46  | Sequence 46, Appl  |
| 44 | 442.5 | 16.3 | 222 | 1 | US-08-266-407A-46 | Sequence 46, Appl  |
| 45 | 442.5 | 16.3 | 222 | 2 | US-08-892-544-46  | Sequence 46, Appl  |

ALIGNMENTS

|  |   |
|--|---|
| RESULT 1   |   |
| US-09-342-749-2                                  | US-09-342-749-2   |
| Sequence 2, Application US/09342749              |   |
| Patent No. 6166194                               |   |
| GENERAL INFORMATION:                             |   |
| APPLICANT: Wong, Alexander K. C.                 |   |
| APPLICANT: Tavligian, Sean V.                    |   |
| APPLICANT: Teng, David H. F.                     |   |
| APPLICANT: Myriad Genetics, Inc.                 |   |
| TITLE OF INVENTION: TMRSS2 is a Tumor Suppressor |   |
| FILE REFERENCE: 2318-202                         |   |
| CURRENT APPLICATION NUMBER: US/09/342,749        |   |
| EARLIER FILING DATE: 1999-06-29                  |   |
| EARLIER APPLICATION NUMBER: US 60/091,044        |   |
| NUMBER OF SEQ ID NOS: 33                         |   |
| SOFTWARE: PatentIn Ver. 2.0                      |   |
| SEQ ID NO 2                                      |   |
| LENGTH: 492                                      |   |
| TYPE: PRT  |   |
| ORGANISM: Homo sapiens                           |   |
| US-09-342-749-2                                  |   |
| Query Match                                      | 100.0% Score 2717, DB 4, Length 492:                              |
| Best Local Similarity                            | 100.0% Pred. No. 2.2e-241:  |
| Matches 492; Conservative                        | 0; Mismatches 0; Indels 0; Gaps 0;                                |
| QY   | 1 MALNSGSPPAIGPYENHGXOPENPYPAQTVPYVEVHPAQQYPPVPOYAPRVLOA 60       |
| DB   | 1 MALNSGSPPAIGPYENHGXOPENPYPAQTVPYVEVHPAQQYPPVPOYAPRVLOA 60       |
| QY   | 61 SNPVCTOPKSPSGVCTSKTKKALCTLTGCTFLVGAALAGLLMKFKSGKNSGIEC 120     |
| DB   | 61 SNPVCTOPKSPSGVCTSKTKKALCTLTGCTFLVGAALAGLLMKFKSGKNSGIEC 120     |
| QY   | 121 DSSGCTINSNMCDGSHRPGGEGEDRCVRLGPNFTILOVYSSORRSMHPVCOODMNNY 180 |
| DB   | 121 DSSGCTINSNMCDGSHRPGGEGEDRCVRLGPNFTILOVYSSORRSMHPVCOODMNNY 180 |
| QY   | 181 GRAACDKMKYKNNFYSSQCIYVDSGSTSPMKLNTSAGNVDIKKLYHSDACSKAVSLR 240 |
| DB   | 181 GRAACDKMKYKNNFYSSQCIYVDSGSTSPMKLNTSAGNVDIKKLYHSDACSKAVSLR 240 |
| QY   | 241 CIACGVNLSSRQSRIVGGSALPGAMPQVSLAVONVHVCSSITTEMTVTAHCYEK 300    |
| DB   | 241 CIACGVNLSSRQSRIVGGSALPGAMPQVSLAVONVHVCSSITTEMTVTAHCYEK 300    |
| QY   | 301 PLNNPMHWAFFGILROSMTFAGAGVQVEKYSHRNYSKTRNDIDALMKLOKPLTFNDL 360 |
| DB   | 301 PLNNPMHWAFFGILROSMTFAGAGVQVEKYSHRNYSKTRNDIDALMKLOKPLTFNDL 360 |

Db 301 PLNNPWHHTAFAGILRSFMYGAGYOVESHNPNTDSTKNNDIALMKLQPLTFNDL 360  
OY 361 VKPVCLEPNPGLMLOPEOLCWSISGWATEEKGKTSSEVLNNAKVLLEIETORCNSRYVDNLT 420  
Db 361 VKPVCLEPNPGLMLOPEOLCWSISGWATEEKGKTSSEVLNNAKVLLEIETORCNSRYVDNLT 420  
OY 421 TPAMICAGFLAGNDSCGDSGGPLVTSKNNIMWLIGDTSWGSCKAKAYRPGYGNVWF 480  
Db 421 TPAMICAGFLAGNDSCGDSGGPLVTSKNNIMWLIGDTSWGSCKAKAYRPGYGNVWF 480  
OY 481 TDMYRMRADG 492  
Db 481 TDMYRMRADG 492

## RESULT 2

US-08-807-151-1  
; Sequence 1, Application US/08807151  
; Patent No. 6043033  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Lal, Preeli  
; TITLE OF INVENTION: NOVEL HUMAN PROSTATE-ASSOCIATED  
; TITLE OF INVENTION: PROTEASE  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: US  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/807,151  
; FILING DATE: Filed Herewith  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0227 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 283 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: SCORNO701  
; CLONE: 556016  
; US-08-807-151-1

Query Match 56.7%; Score 1540; DB 3; Length 283;  
Local Similarity 99.6%; Pred. No. 1.3e-133;  
Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Query Match 56.7%; Score 1540; DB 3; Length 283;  
Local Similarity 99.6%; Pred. No. 1.3e-133;  
Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 61 QVSLHVNQNVHCGGSIITPEWITAAHCVKPLNPNWHTAFAGILRSFMYGAGYOVE 120  
OY 330 KVISHPNYDSTKKNNDIALMKLQPLTFNDLVKPYCLPNPGLMLOPEOLCWSISGWATEE 389  
Db 121 KVISHPNYDSTKKNNDIALMKLQPLTFNDLVKPYCLPNPGLMLOPEOLCWSISGWATEE 180  
OY 390 KKGTSSEVLNNAKVLLEIETORCNSRYVDNLTTPAMICAGFLAGNDSCGDSGGPLVTSK 449  
Db 181 KKGTSSEVLNNAKVLLEIETORCNSRYVDNLTTPAMICAGFLAGNDSCGDSGGPLVTSK 240  
OY 450 NNTIWLIGDTSWGSCKAKAYRPGYGNVWFETDMYRMRADG 492  
Db 241 NNTIWLIGDTSWGSCKAKAYRPGYGNVWFETDMYRMRADG 283

## RESULT 3

US-09-008-271A-6  
; Sequence 6, Application US/09008271A  
; Patent No. 6203979  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Tang, Tom Y.  
; APPLICANT: Shah, Puryl  
; TITLE OF INVENTION: HUMAN PROTEASE MOLECULES  
; NUMBER OF SEQUENCES: 24  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Dr.  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/008,271A  
; FILING DATE: 16-Jan-1998  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: <Unknown>  
; FILING DATE: <Unknown>  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Mohan-Peterson, Sheila  
; REGISTRATION NUMBER: 41,201  
; REFERENCE/DOCKET NUMBER: PF-0458 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 435 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: COLNNOT13  
; CLONE: 1337018  
; SEQUENCE DESCRIPTION: SEQ ID NO: 6 :

US-09-008-271A-6

Query Match 24.9%; Score 676.5; DB 4; Length 435;  
Best Local Similarity 39.1%; Pred. No. 4.8e-54;  
Matches 150; Conservative 57; Mismatches 128; Indels 49; Gaps 13;

Query Match 24.9%; Score 676.5; DB 4; Length 435;  
Best Local Similarity 39.1%; Pred. No. 4.8e-54;  
Matches 150; Conservative 57; Mismatches 128; Indels 49; Gaps 13;